

REPORT OF CHANNEL CONDITIONS 400 FEET WIDE OR GREATER (ER 1130-2-306)					PAGE 1 OF 3			
					DATE: OCTOBER 2005			
TO: The Record			FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090					
RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack and Passaic Rivers, New Jersey					MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Reach A: Newark Bay South Reach: Starts at the junction with Kill Van Kull, ends at RED GAS #10.	Map 872 Pg 2, 3, & 5 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	1,050-1,850	1.35	45	43.3	46.5	46.4	46.3
Reach B: Newark Bay Middle Reach: Starts at RED GAS #10, ends approximately 250 ft south of RED NUN #16.	Map 872 Pg 5 thru 6 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	1,700-800	1.01	45	44.3	45.6	45.2	43.2
Reach B1: Newark Bay Middle Reach: Starts approximately 250 ft south of RED NUN #16, ends approximately 420 ft south of RED GAS #20.	Map 872 Pg 6 thru 7 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	800-560	0.61	40	34.1	38.9	35.0	30.1
Reach C: Newark Bay North Reach and Turning Basin: Starts approximately 420 ft south of RED GAS #20, ends 450 ft south from LIGHT NB SKELETON TOWER Fixed with Light.	Map 872 Pg 7 thru 10 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	500-1,000	1.57	35	17.5	23.7	20.7	10.5
Reach D: Port Newark Branch Channel: Starts at GREEN GAS #17, ends 700 ft northwest of GREEN CAN #3.	Map 872 Pg 7 & 14 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	800-400	0.38	40	29.0	33.9	36.7	36.2
Reach E: Port Newark Inshore Channel: Starts 700 ft northwest of GREEN CAN #3 to End.	Map 872 Pg 15 & 16 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	400	1.21	40	34.3	32.8	30.6	31.2
Reach G: Port Elizabeth Branch Channel: Starts at RED NUN #2 EBB.	Map 872 Pg 11 thru 13 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	800-500	1.40	45	44.6	45.3	44.4	40.9
Reach H: Port Elizabeth Pierhead Channel: was made part of the Main Channel.								
REMARKS: <ul style="list-style-type: none"> All depths are in reference to Mean Low Water (MLW) Reach A: <ul style="list-style-type: none"> Approximately 500 ft long and 200 ft wide shoal along the western channel limit in Left Outside ¼ RED NUN #8 FLOOD and RED GAS #10 SLACK. (Remarks continued on page 2 of 3)								

(Remarks continued from page 1 of 3)

- **Reach B:**

- In the west half of Left Outside $\frac{1}{4}$ starting from RED NUN #12 SLACK Several small shoals covering an approximately 900 ft length northward; shoaling starts 200 ft south of RED NUN #2 EBB and spreads across the entire $\frac{1}{4}$ until the northern end of this reach.
 - In the Right Outside $\frac{1}{4}$ Shoaling starts approx. 700 ft south of RED GAS #14 SLACK and spreads across the $\frac{1}{4}$ until the northern end of this reach.
- No shoaling exists in the Right Inside $\frac{1}{4}$ nor the Left Inside $\frac{1}{4}$ shoaling for this entire reach.

- **Reach B1:**

- Shoaling exists across the entire width of the left half of the channel in this reach starting approximately 670 ft north of GREEN CAN #15A and proceeds north for approximately 570 ft.
- Shoaling exists across the entire Left Outside $\frac{1}{4}$ of this reach beginning at GREEN CAN #19A and continues north for approximately 200 ft until the end of the reach.
- Shoaling exists throughout the entire width of the right half of the channel in this reach.

- **Reach C:**

- Left Outside $\frac{1}{4}$ has continuous shoaling, maximum 40 ft wide, all along the west channel line starting from GREEN CAN 19A FLOOD until Newark Bay Bridge hence the shoal widens to 130 ft and ends 300 ft north from CONRAIL RAIL BRIDGE; in the vicinity of RED NUN #24 FLOOD shoal starts spreading through the entire width of this $\frac{1}{4}$ to the north end of the reach.
- In Right Outside $\frac{1}{4}$ shoaling covers 50% to 100% of the width of this $\frac{1}{4}$ on a 1000 ft length from RED NUN #18 SLACK then has continuous, maximum 80 ft wide, shoaling all along the east channel line; shoaling starts spreading through the entire width of this $\frac{1}{4}$ 300 ft south from CONRAIL RAIL BRIDGE to the north end of the reach.
- Both the Right Inside $\frac{1}{4}$ and Left Inside $\frac{1}{4}$ provide the project depth until the line 200 ft south from the CONRAIL RAIL BRIDGE where spots of shoals appear; north from the CONRAIL RAIL BRIDGE shoaling spreads through the Right Inside, then the Left Inside $\frac{1}{4}$.
- North from the CONRAIL RAIL BRIDGE an approx. 400 ft wide irregularly aligned route provides the 35 ft project depth up to the northern end of this reach.

- **Reach D:**

- Shoaling covers most of entire width of this reach. Project depth available only in the approximate vicinity of the centerline of this reach on a less than 100 ft width.

- **Reach E:**

- Shoaling covers most of entire width of this reach. Project depth available only in the approximate vicinity of the centerline of this reach having a 100 ft width, for the initial 3,000 ft length.

- **Reach G:**

- Left Outside $\frac{1}{4}$ has spots of shoaling, on 1000 ft length with 100 ft width, along the south channel line, starting from the line of RED NUN #2 EBB and continues westward; also an approx. 1000 ft long area with spots of shoals at the west end of the reach.
- In Right Outside $\frac{1}{4}$ shoaling covers 50% to 100% of the width of this $\frac{1}{4}$ on a 3,500 ft length starting from RED NUN #2 EBB and continuing westward.
- In Right Inside $\frac{1}{4}$ shoaling covers 50% to 100% of the width of this $\frac{1}{4}$ on a 1,500 ft length starting 1000 ft west from RED NUN #2 EBB and continues westward.

REPORT OF CHANNEL CONDITIONS 100 TO 400 FEET WIDE <i>(ER 1130-2-3165)</i>					PAGE 3 OF 3 DATE: OCTOBER 2005		
TO: The Record				FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090			
RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack and Passaic Rivers, New Jersey					MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)			
Reach F: Port Newark Pierhead Channel: Starts 700 ft northwest of GREEN CAN #3, ends at RED NUN #4 EBB.	Map 872 Pg 11 & 14 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	300	0.72	40	31.6	31.6	29.5
Reach I: South Elizabeth Channel: Starts at the west side of the Main Channel at GREEN CAN #1 FLOOD branches out westward to end.	Map 872 Pg 4 of 16 15, 16, 28-30 Jun & 5, 6, 8, 12, 13, 19, 20, 26 & 27 Jul 2005	290	0.49	45	46.0	47.0	46.8
REMARKS: <ul style="list-style-type: none"> All depths are in reference to Mean Low Water (MLW) Reach F: Shoaling covers almost the entire reach. 							